

AMENDMENTS

In the Claims

Claims 1-53 (Canceled)

Claim 54 (Currently Amended): A ~~commercially acceptable~~ broccoli plant or parts of said plant wherein said plant comprises ~~comprising~~ a center head having a diameter of 3 to 8 10 inches at maturity when said plant is exposed to a maximum daily temperature of ~~at least~~ 90°F to 100°F for ~~at least~~ 5 consecutive days during the bud development phase ~~growth cycle~~ of said plant wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claim 55 (Currently Amended): Seed produced by the plant of claim 54, wherein such seed produces a broccoli plant comprising a center head having a diameter of 3 to 8 10 inches at maturity when said plant is exposed to a maximum daily temperature of ~~at least~~ 90°F to 100°F for at least 5 consecutive days during the bud development phase ~~growth cycle~~ of said plant wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claims 56-60 (Canceled)

Claim 61 (Currently Amended): A ~~commercially acceptable~~ broccoli plant or parts of said plant wherein said plant comprises ~~comprising~~ a center head having a diameter of 3 to 8 10 inches at maturity when said ~~plain plant~~ is exposed to a maximum daily temperature of ~~at least~~ 95°F to 100°F for at least 1 day during the bud development phase ~~growth cycle~~ of said plant

wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claim 62 (Currently Amended): Seed produced by the plant of claim 61, wherein such seed produces a broccoli plant comprising a center head having a diameter of 3 to ~~8~~ 10 inches at maturity when said plant is exposed to a maximum temperature of ~~at least 95°F~~ to 100°F for at least 1 day during the bud development phase ~~growth cycle~~ of said plant wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claims 63-67 (Canceled)

Claim 68 (Currently Amended): A ~~commercially acceptable~~ broccoli plant or parts of said plant wherein said plant comprises ~~comprising~~ a center head having a diameter of 3 to ~~8~~ 10 inches at maturity when said plain is exposed to a maximum temperature of at least 85°F to 100°F for at least 15 days during the bud development phase ~~growth cycle~~ of said plant wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claim 69 (Currently Amended): Seed produced by the plant of claim 68, wherein such seed produces a broccoli plant comprising a center head having a diameter of 3 to ~~8~~ 10 inches at maturity when said plant is exposed to a maximum temperature of ~~at least 85°F~~ to 100°F for at least 15 consecutive days during the bud development phase ~~growth cycle~~ of said plant wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform

beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claims 70-74 (Canceled)

Claim 75 (Currently Amended): A ~~commercially-acceptable~~ broccoli plant or parts of said plant wherein said plant comprises ~~comprising~~ a center head having a diameter of 3 to 8 10 inches at maturity when said ~~plain plant~~ is exposed to a maximum temperature of ~~at least~~ 80°F to 100°F for at least 20 days during the bud development phase ~~growth cycle~~ of said plant wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claim 76 (Currently Amended): Seed produced by the plant of claim 75, wherein such seed produces a broccoli plant comprising a center head having a diameter of 3 to 8 10 inches at maturity when said plant is exposed to a maximum temperature of ~~at least~~ 80°F to 100°F for at least 20 consecutive days during the bud development phase ~~growth cycle~~ of said plant wherein said plant exhibit no heat stress symptoms including one or more of the following: non-uniform beads; brown, yellow, light-green or purple colored heads; flat heads; bracts; rapid fracturing of the head, "cateye", and hollow stems.

Claims 77-81 (Canceled)